

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A computer readable storage media having instructions, which when executed on a computer generate client side markup for a client in a client/server system, the instructions comprising:

a set of controls comprising voice activated controls and visual controls configured for use on a server remote from the client for defining a dialog in an authoring page for a website and used to dynamically generate client side markup in accordance with the dialog including both audio prompts and visual prompts, the controls comprising at least a question control for generating visual markup related to audible prompting of a question, and an answer control for generating markup related to a grammar for recognition, each of the controls having attributes including an attribute to indicate whether the associated control is available for activation, wherein the controls are arranged in a hierarchical structure and repeatedly used with attributes having different values in order to define the dialog;

a module, using the attributes provided directly from the controls in the authoring page and when executed on the server, generates audio and visual client side markup based on the dialog as a function of which controls are activated; and

a module configured for use on the client and when executed on the client and using the client side markup creates the audio and visual dialog as a function of which controls are activated.

2. (Previously Presented) The computer readable storage media of claim 1 wherein the question control activates the answer control.

3. (Previously Presented) The computer readable storage media of claim 2 wherein the controls comprise:

a command control for generating markup related to a grammar for one of navigation in the markup, help with a task, and repeating an audible prompt.

4. (Previously Presented) The computer readable storage media of claim 3 wherein the controls comprise:

a confirmation control for generating markup related to confirming that a recognized result is correct.

5. (Previously Presented) The computer readable storage media of claim 4 wherein the confirmation control is activated as a function of a confidence level or a received result.

6. (Previously Presented) The computer readable storage media of claim 5 wherein the answer control includes an attribute related to a confidence level.

7. (Previously Presented) The computer readable storage media of claim 5 wherein the confirmation control activates an accept control to accept the recognized result.

8. (Previously Presented) The computer readable storage media of claim 5 wherein the confirmation control activates a deny control to deny the recognized result.

9. (Previously Presented) The computer readable storage media of claim 5 wherein the confirmation control activates a correct control to correct the recognized result.

10. (Cancelled)

11. (Previously Presented) The computer readable storage media of claim 2 wherein the answer control includes a mechanism to associate a received result with one control of the set of controls.

12. (Previously Presented) The computer readable storage media of claim 11 wherein the mechanism includes binding a recognition value.

13. (Previously Presented) The computer readable storage media of claim 12 wherein the mechanism includes issuing an event related to operation of binding.

14. (Previously Presented) The computer readable storage media of claim 1 and further comprising a second set of controls for generating markup related to visual rendering on a client, wherein each control of the first-mentioned set of controls is associated with at least one of the controls of the second set of controls.

15. (Currently Amended) A computer readable storage media having instructions, which when executed on a computer define a dialog, the instructions comprising:

a set of controls configured for use on a server remote from a client for defining a dialog in an authoring page, the controls comprising at least a question control having an attribute directly related to generating an audible prompt of a question, and an answer control having an attribute directly related to using a grammar for recognition, wherein the attribute directly related to recognition include at least one of location of grammar for use in recognition and confidence level thresholds for recognition and wherein the attribute directly related to audible prompting include at least one of inline text for text-to-speech conversion, location of data for audible rendering and playing of a prerecorded audio file, wherein the controls are repeatedly used with attributes having different values in order to define the dialog, and wherein each of the controls further has an attribute to indicate whether the associated control is available for activation, and wherein at least some of the controls have a second attribute indicative of a hierarchal relationship of when controls are activated; and  
a module, which when executed on the server and using the attributes provided

directly from the controls in the authoring page, generates markup by incorporating the attributes directly related to recognition and audible prompting in the markup that is that is sent to the remote client over a network, the markup being based on the dialog as a function of which controls are activated.

16. (Previously Presented) The computer readable storage media of claim 15 wherein the question control activates the answer control.

17. (Previously Presented) The computer readable storage media of claim 16 wherein the controls comprise:

a command control for generating code related to a grammar for one of navigation in the markup, help with a task, and repeating an audible prompt.

18. (Previously Presented) The computer readable storage media of claim 17 wherein the controls comprise:

a confirmation control for generating code related to confirming that a recognized result is correct.

19. (Previously Presented) The computer readable storage media of claim 18 wherein the confirmation control is activated as a function of a confidence level or a received result.

20. (Previously Presented) The computer readable storage media of claim 19 wherein the answer control includes an attribute related to a confidence level.

21. (Previously Presented) The computer readable storage media of claim 19 wherein the confirmation control activates an accept control to accept the recognized result.

22. (Previously Presented) The computer readable storage media of claim 19 wherein the confirmation control activates a deny control to deny the recognized result.

23. (Previously Presented) The computer readable storage media of claim 19 wherein the confirmation control activates a correct control to correct the recognized result.

24. (Cancelled)

25. (Previously Presented) The computer readable storage media of claim 16 wherein the answer control includes a mechanism to associate a received result with one control of the set of controls.

26. (Cancelled)

27. (Previously Presented) The computer readable storage media of claim 25 wherein the mechanism includes issuing an event related to operation of binding.

28. (Previously Presented) The computer readable storage media of claim 15 and further comprising a second set of controls related to visual rendering, wherein each control of the first-mentioned set of controls is associated with at least one of the controls of the second set of controls.

29. (Currently Amended) A computer implemented method for performing recognition and/or audible prompting on a client in a client/server system, the method comprising:

defining a dialog with a set of controls in an authoring page for a website, the set of controls comprising at least a question control having an attribute directly related to generating an audible prompt of a question, and an answer control having an attribute directly related to using a grammar for recognition, wherein the attribute directly related to recognition include at least one of

location of grammar for use in recognition and confidence level thresholds for recognition and wherein the attribute directly related to audible prompting include at least one of inline text for text-to-speech conversion, location of data for audible rendering and playing of a prerecorded audio file, each of the controls further having an attribute to indicate whether the associated control is available for activation, wherein the controls are arranged in a hierarchical structure and repeatedly used with attributes having different values in order to define the dialog;

dynamically generating client side markup on a server remote from the client in accordance with the controls in the authoring page and by incorporating the attributes directly related to recognition and audible prompting in the markup; and

receiving the client side markup in the client and creating the dialog on the client as a function of execution of the client side markup related to which controls are activated, wherein creating the dialog on the client includes executing the client side markup for activated controls in a loop manner until a form having a plurality of values to be obtained from a user is complete, and wherein execution of the dialog includes activation being based on values obtained from the user during execution of the dialog.

30. (Original) The computer implemented method of claim 29 wherein creating the dialog includes activation of the answer control through the question control.

31. (Original) The computer implemented method of claim 30 wherein the set of controls include a command control for generating code related to a grammar for one of navigation in the markup, help with a task, and repeating an audible prompt.

32. (Original) The computer implemented method of claim 31 wherein the set of controls

include a confirmation control for generating code related to confirming that a recognized result is correct.

33. (Original) The computer implemented method of claim 32 wherein creating the dialog includes activation of the confirmation control as a function of a confidence level or a received result.

34 (Previously Presented) The computer implemented method of claim 29 and further comprising associating each control of the first-mentioned set of controls with at least one control of a second set of controls, the second set of controls used for generating markup related to visual rendering on the client.